

Report No.: 1

Test Time: 04.12.2017 12:36

Luminaire Property

Luminaire Manufacturer: FAROS

Luminaire Description: FP 150 75W 5000K 2x40-100gr. NEMA

Number of Lamps: 1

Luminous Width (mm): 153

Voltage: 231.6 V

Power: 75.79 W

Luminous Length (mm): 496

Luminous Height (mm): 80

Current: 0.337 A

Power Factor: 0.968

Photometric Results

CIE Class: Direct

Measurement Flux: 9181.5 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 123.5, 138.6, 140.2, 139.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 109.1, 119.4, 126.1, 125.6

Luminaire Efficacy Rating (LER): 121.19

Max. Intensity: 4042.65 cd

S/MH(C0/C180): 2.44

Total Rated Lamp Lumens: 9181.5 lm

Efficiency: 100%

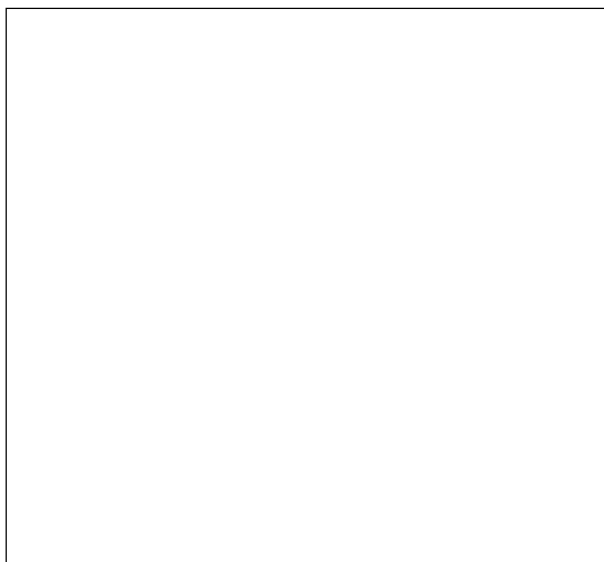
Upward Ratio: 1%

Central Intensity: 1500.73 cd

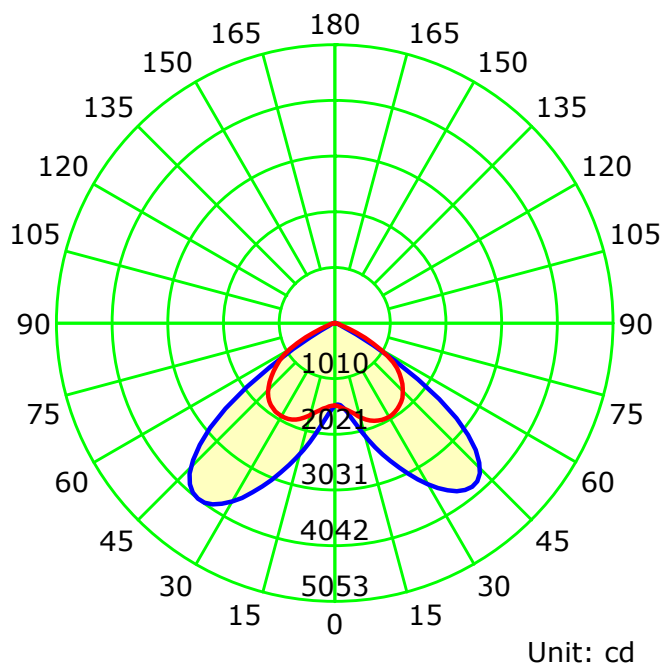
Pos of Max. Intensity: H180 V38

S/MH(C90/C270): 1.80

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

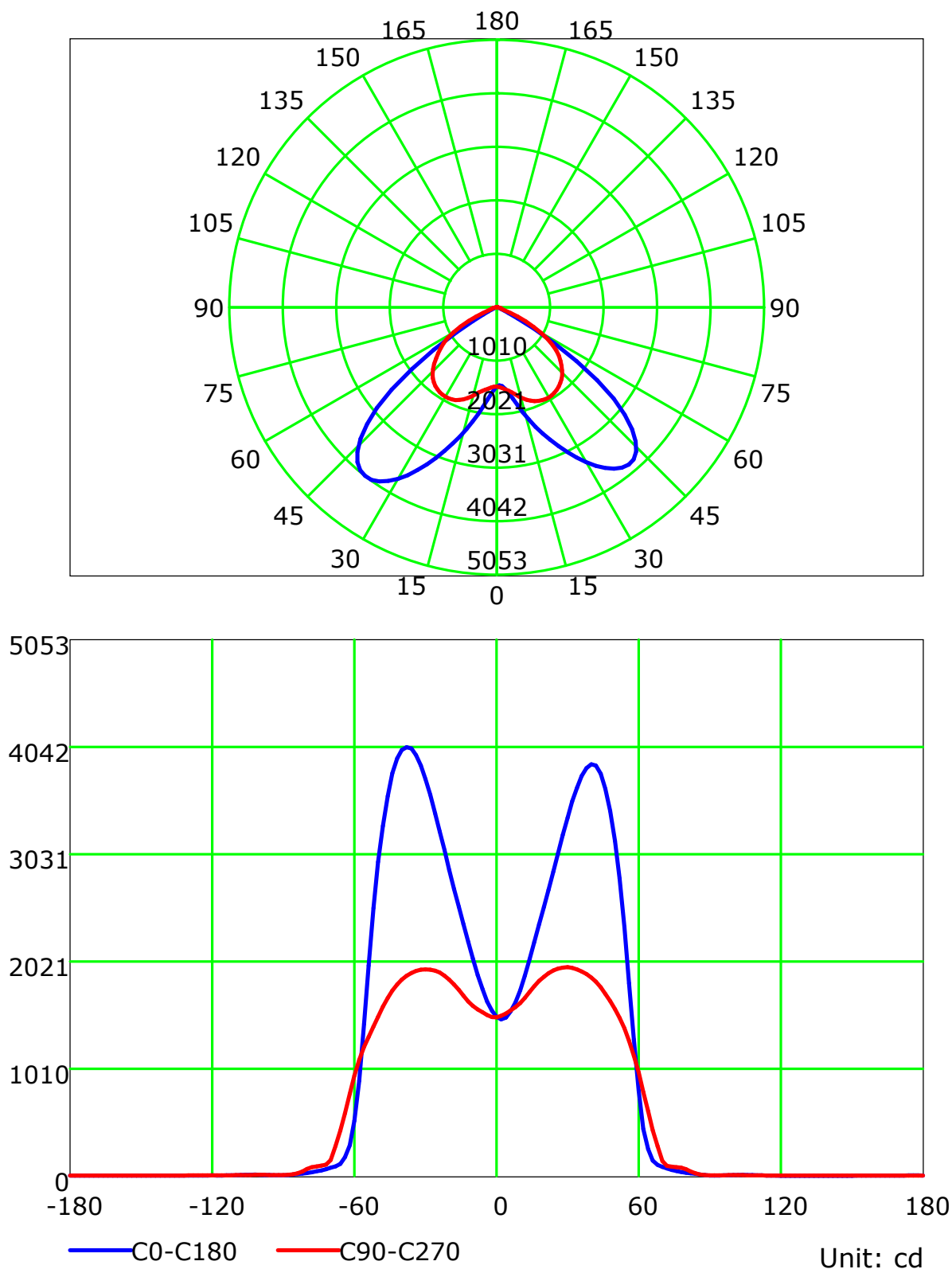
Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

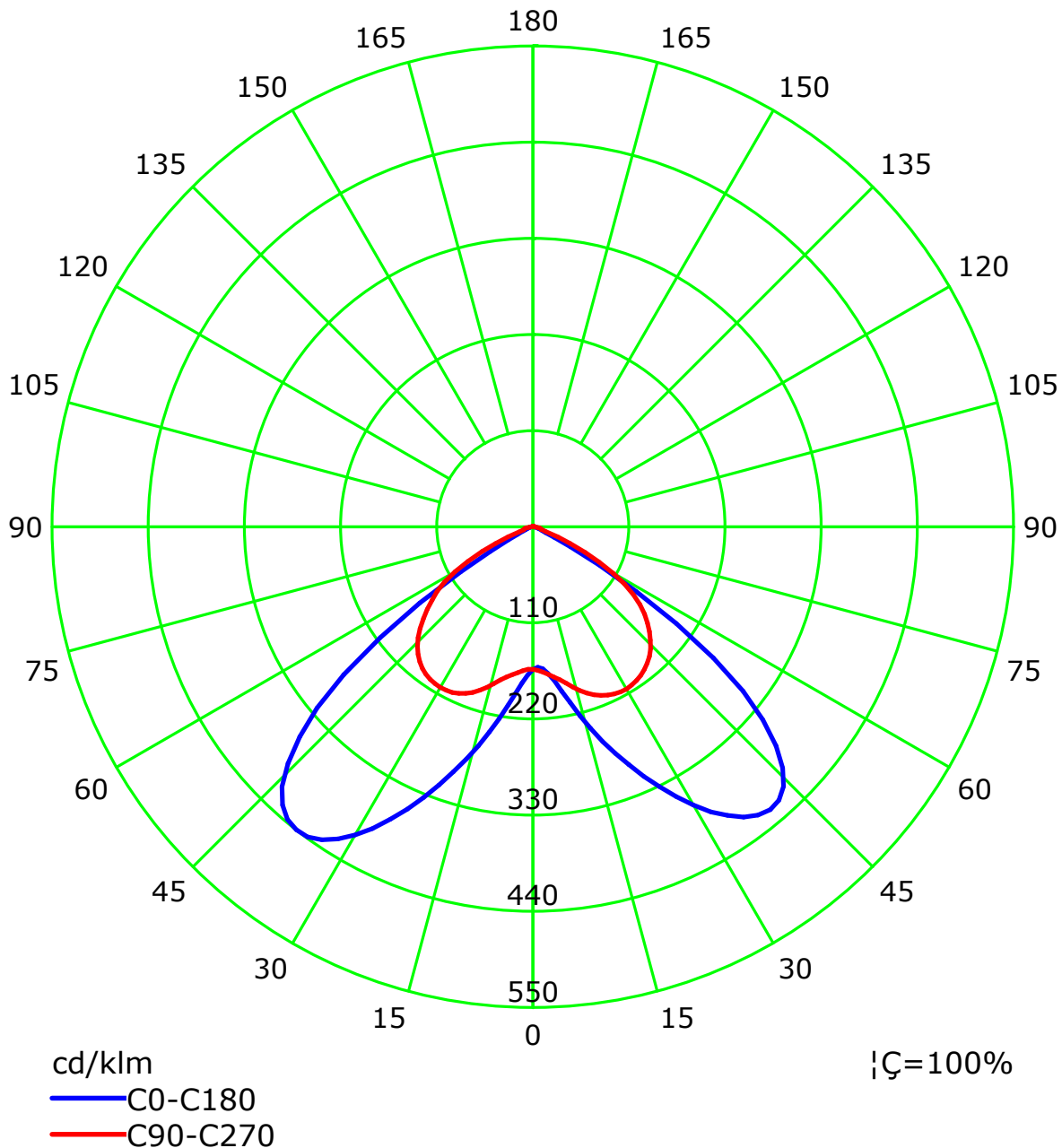
Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.606 m

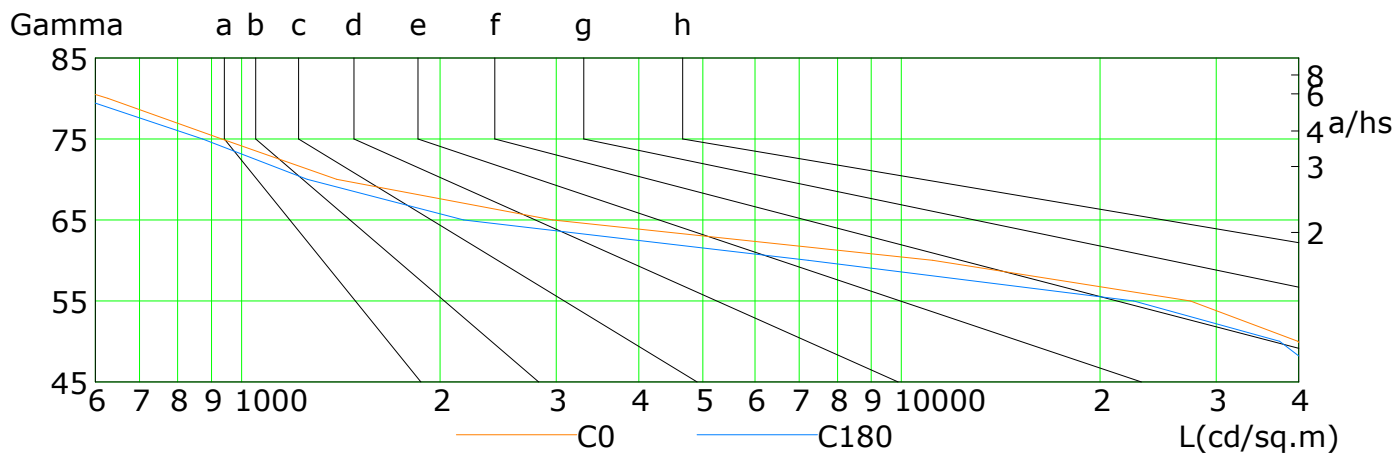
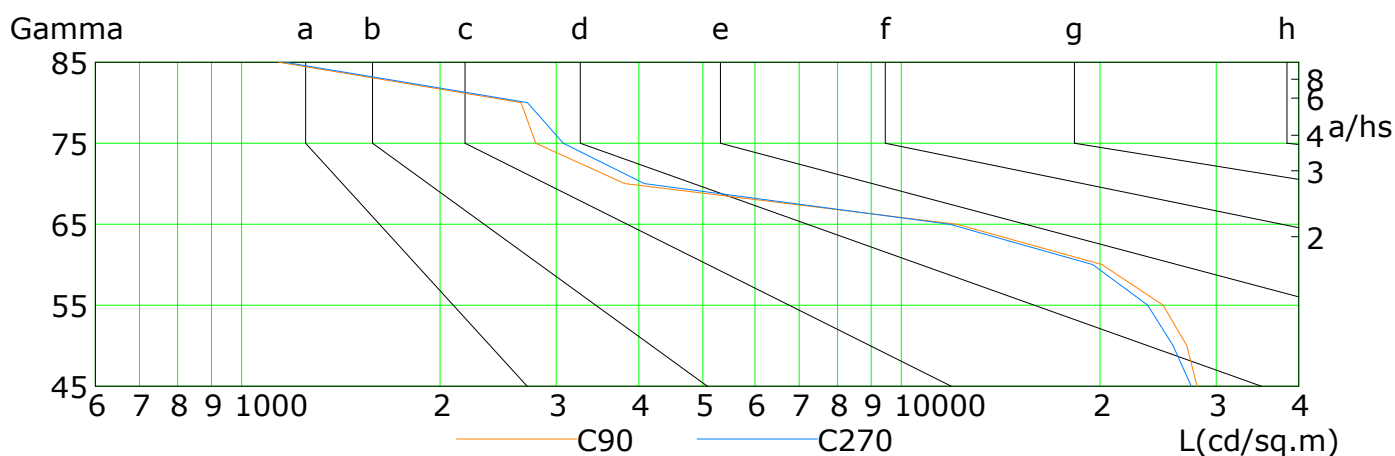
Humidity:

Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	45535	39878	27402	11148	2962	1393	934	627	404
C90	28071	27063	24920	20146	12124	3807	2790	2651	1139
C180	45144	37411	22486	7226	2170	1257	873	571	375
C270	27509	25817	23611	19493	11838	4076	3074	2711	1163

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

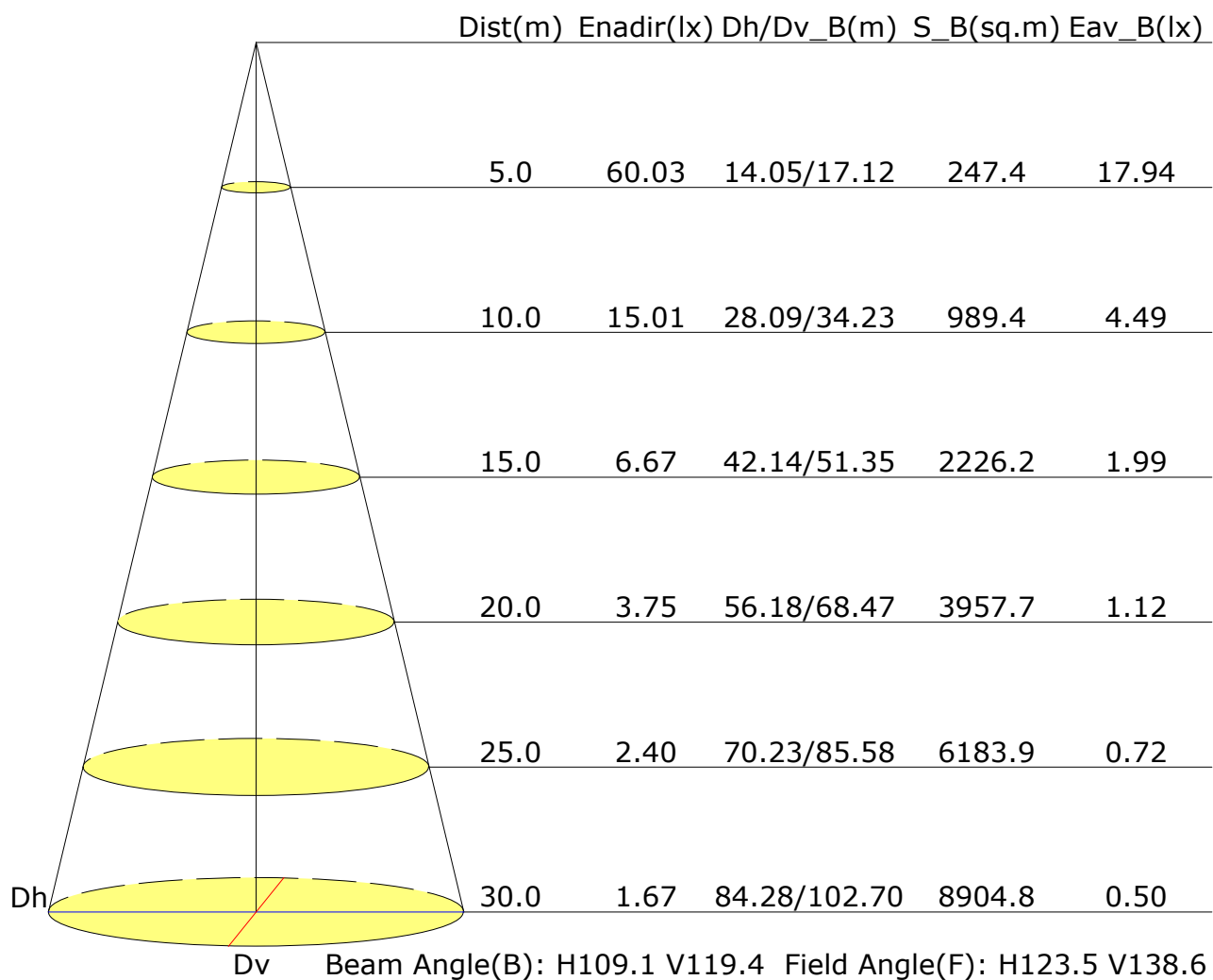
Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.606 m

Humidity:

Inspector:

UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	25.1	26.4	25.4	26.7	26.9	24.6	26.0	24.9	26.2	26.5
3H	24.9	26.2	25.3	26.4	26.7	24.8	26.0	25.1	26.3	26.6
4H	24.9	26.0	25.2	26.3	26.6	24.7	25.9	25.1	26.2	26.5
6H	24.8	25.8	25.1	26.2	26.5	24.7	25.7	25.0	26.1	26.4
8H	24.7	25.8	25.1	26.1	26.4	24.6	25.7	25.0	26.0	26.3
12H	24.7	25.7	25.1	26.0	26.4	24.6	25.6	25.0	25.9	26.3
X=4H Y=2H	25.6	26.8	26.0	27.1	27.4	25.3	26.5	25.7	26.8	27.1
3H	25.5	26.5	25.9	26.8	27.2	25.5	26.5	25.9	26.8	27.2
4H	25.5	26.3	25.9	26.7	27.1	25.5	26.3	25.9	26.7	27.1
6H	25.4	26.1	25.8	26.5	26.9	25.4	26.2	25.9	26.6	27.0
8H	25.4	26.0	25.8	26.4	26.9	25.4	26.1	25.8	26.5	26.9
12H	25.3	25.9	25.8	26.4	26.8	25.4	26.0	25.8	26.4	26.9
X=8H Y=4H	25.4	26.1	25.8	26.5	26.9	25.4	26.1	25.8	26.5	26.9
6H	25.3	25.9	25.8	26.3	26.8	25.4	25.9	25.8	26.3	26.8
8H	25.3	25.8	25.8	26.2	26.7	25.3	25.8	25.8	26.3	26.8
12H	25.3	25.7	25.8	26.1	26.7	25.3	25.7	25.8	26.2	26.7
X=12H Y=4H	25.3	26.0	25.8	26.4	26.8	25.4	26.0	25.8	26.4	26.9
6H	25.3	25.8	25.8	26.2	26.7	25.3	25.8	25.8	26.3	26.8
8H	25.3	25.7	25.8	26.1	26.7	25.3	25.7	25.8	26.2	26.7
Variations with the observer position at spacings:										
S=1.0H	+1.0/-1.2					+0.3/-0.3				
S=1.5H	+2.4/-6.9					+1.8/-2.6				
S=2.0H	+3.3/-12.7					+3.3/-6.6				

Calculate in accordance with CIE Pub.117. The table is revised with 9182lm ($8\log(F/F_0) = 7.7$).

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 Test Device: LSG-1800B
 Distance: 12.606 m
 Humidity:
 Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 2.00									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	NA	0.77	0.83	0.88	0.95	0.99	1.01	1.05	1.07	
	0.30		NA	0.71	0.77	0.82	0.90	0.94	0.98	1.02	1.04	
	0.20		NA	0.66	0.72	0.78	0.86	0.91	0.94	0.99	1.02	
0.50	0.50	0.20	NA	0.75	0.81	0.85	0.92	0.95	0.98	1.01	1.03	
	0.30		NA	0.69	0.75	0.80	0.88	0.92	0.95	0.98	1.01	
	0.20		NA	0.65	0.71	0.77	0.84	0.89	0.92	0.96	0.99	
0.30	0.50	0.20	NA	0.73	0.78	0.83	0.89	0.92	0.94	0.97	0.99	
	0.30		NA	0.68	0.74	0.79	0.85	0.89	0.92	0.95	0.97	
	0.20		NA	0.65	0.70	0.75	0.83	0.87	0.90	0.93	0.96	
0.00	0.00	0.00	NA	0.62	0.68	0.73	0.79	0.83	0.86	0.89	0.91	
Rating:76W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 2.00									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	NA	0.67	0.57	0.48	0.37	0.30	0.26	0.20	0.16	
	0.30		NA	0.57	0.50	0.43	0.34	0.28	0.24	0.19	0.15	
	0.20		NA	0.50	0.44	0.38	0.31	0.26	0.22	0.18	0.15	
0.50	0.50	0.20	NA	0.64	0.54	0.46	0.35	0.32	0.24	0.18	0.15	
	0.30		NA	0.56	0.48	0.41	0.32	0.26	0.23	0.17	0.14	
	0.20		NA	0.49	0.43	0.37	0.30	0.25	0.21	0.17	0.14	
0.30	0.50	0.20	NA	0.61	0.52	0.44	0.33	0.27	0.23	0.17	0.14	
	0.30		NA	0.54	0.46	0.40	0.31	0.25	0.21	0.17	0.14	
	0.20		NA	0.48	0.42	0.36	0.28	0.24	0.20	0.16	0.13	
0.00	0.00	0.00	1.00	0.37	0.32	0.27	0.20	0.16	0.14	0.11	0.09	
Rating:76W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 2.00									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	NA	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.22	
	0.30		NA	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		NA	0.07	0.09	0.10	0.13	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	NA	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	
	0.30		NA	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		NA	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	NA	0.16	0.16	0.17	0.18	0.18	0.19	0.19	0.20	
	0.30		NA	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		NA	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating:76W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												